

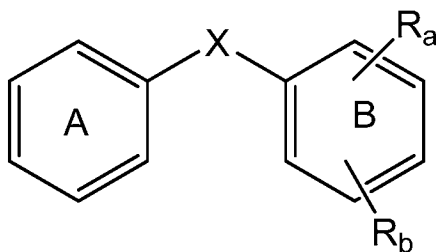
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 CANCELED

4. (previously presented) A compound comprising the structure of formula I:
wherein:



- Ring A is optionally substituted with one to five substituents selected from
 - a) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy; or
 - b) a halogen or trihaloalkyl;
- Ring B comprises at least one structure denoted by R_a and R_b which represent an *ortho*-quinone moiety $-(C=O)-(C=O)-$, *ortho*-catechol $-(C-OH)-(C-OH)-$ or *ortho*-catechol pro-drug moiety $-(C-O\text{-Prodrug moiety})-(C-O\text{-Prodrug moiety})-$; and the remaining carbons of Ring B are optionally substituted with one to five substituents selected from
 - a) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;
 - b) a halogen or trihaloalkyl;
 - c) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy; or
 - d) an OH, or a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol;

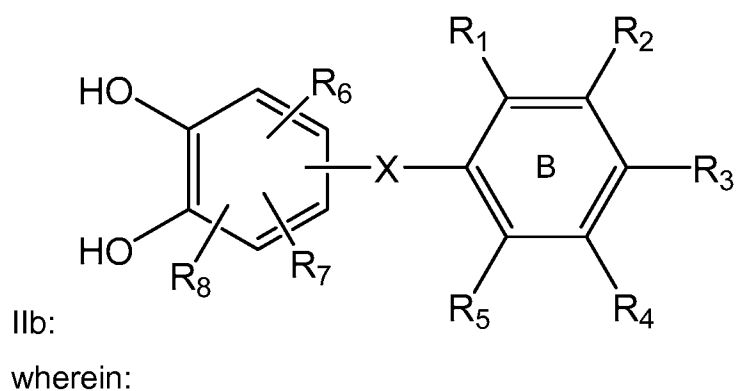
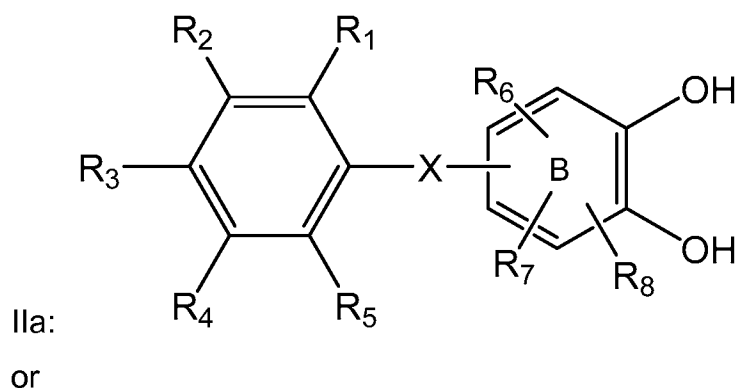
e) nitro; and

- Bridge X is an alkene ($-\text{CR}_9=\text{CR}_{10}-$), wherein R_9 and R_{10} are alternatively H, alkyl, amino, amido, cyano, hydroxyl, or carboxyl;

provided that said compound is not combretastatin A1 or a salt, ester, or prodrug thereof.

Claims 5 - 9 CANCELED

10. (currently amended) A compound comprising a quinone, quinone prodrug, or a pharmaceutically acceptable salt form thereof having one of the following general structures:



- a. ~~at least one of~~ $\text{R}_1, \text{R}_2, \text{R}_3, \text{R}_4, \text{R}_5, \text{R}_6, \text{R}_7$ ~~or~~ and R_8 are the same or different and are selected from:
 - i) a $\text{C}_1, \text{C}_2, \text{C}_3, \text{C}_4$ or C_5 branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;

- ii) a halogen or trihaloalkyl;
 - iii) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy; or
 - iv) ~~an OH, or~~ a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol; ~~or~~
- and the remaining R₁, R₂, R₃, R₄, R₅, R₆, R₇, or R₈ are H; and
- b. X is an alkene (-CR₉=CR₁₀-), wherein R₉ and R₁₀ are alternatively H, alkyl, amino, amido, cyano, hydroxyl, or carboxyl
- provided that said compound is not combretastatin A1 or a salt, ester, or prodrug thereof.

11. (canceled)

12. (currently amended) The compound of claim 44 10, wherein X is an ethylene group (-CH=CH-), and Rings A and B are in a cis (Z) isomeric configuration.

13. (original) The compound of claim 12, wherein R₂, R₃ and R₄ are methoxy.

14. (previously presented) The compound of claim 13, wherein R₈ is selected from:

- i) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;
- ii) a halogen or trihaloalkyl;
- iii) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy;
- iv) an OH, or a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol; or
- v) nitro;

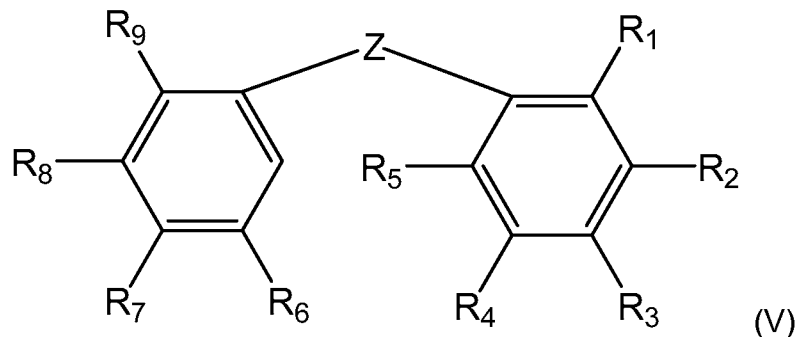
and the remaining R₁, R₅, R₆, and R₇ are H.

15. (original) The compound of claim 14, wherein R₈ is OH or -O-CH₂-CH=CH₂.

16. (original) The compound of claim 4, wherein said catechol is a biooxidative agent which is oxidatively activated *in vivo* to form a quinone capable of participating in a redox cycling reaction to form one or more Reactive Oxygen Species ("ROS").

Claims 17-33 CANCELED

34. (currently amended) A composition of the following formula (V):



wherein

- a. Z is an ethylene (-CH=CH-) bridge in the cis (Z) isomeric configuration;
- b. R₁ and R₂ are OH or a prodrug form thereof;
- c. ~~at least one of~~ R₃, R₄, R₅, R₆, R₇, R₈, and R₉ are ~~optionally~~ the same or different and selected from
 - i) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;
 - ii) a halogen or trihaloalkyl;
 - iii) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy; or
 - iv) ~~an OH, or~~ a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol;
 - v) nitro; and

the remaining R₃, R₄, R₅, R₆, R₇, R₈ and R₉ are hydrogen.

provided that said compound is not combretastatin A1 or prodrug thereof.

35. (original) The composition of claim 34, wherein at least three of R₆, R₇, R₈, and R₉ are not hydrogen.

36. (original) The composition of claim 35, wherein R₆, R₇ and R₈ are the same.

37. (original) The composition of claim 36, wherein R₆, R₇ and R₈ are methoxy.

38. (currently amended) The composition of claim 37, wherein R₃ is

- i) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;
- ii) a halogen or trihaloalkyl;
- iii) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy;
- iv) an OH, or a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol; or
- v) oxo, lower alkanoyl, thio, sulfonyl, sulfonamide, nitro, nitrosyl, cyano, carboxy, carbamyl, aryl, or heterocycle; and

R₄, R₅, and R₉ are hydrogen.

39. (previously presented) The composition of claim 38, wherein R₃ is -CH₃, -CH₂CH₃, -OCH₂CH₃, -F, -Br, -CF₃, -CBr₃, -OH, -O-CH₂-CH=CH₂, -CH₂-CH=CH₂, -NO₂, -cyano, or -carboxy.

40. (original) The composition of claim 39, wherein R₆, R₇, and R₈ are F.

41. (currently amended) The composition of claim 40, wherein R₃ is

- i) a C₁, C₂, C₃, C₄ or C₅ branched or straight-chain lower alkoxy, cycloalkoxy, heterocycloalkoxy, aryloxy, or lower alkanoyloxy;
- ii) a halogen or trihaloalkyl;
- iii) a C₁, C₂, C₃, C₄ or C₅ branched or straight chain lower alkyl, allyl, allyloxy, vinyl, or vinyloxy;
- iv) an OH, or a C₁, C₂, C₃, C₄ or C₅ primary, secondary, or tertiary alcohol;
- v) oxo, lower alkanoyl, thio, sulfonyl, sulfonamide, nitro, nitrosyl, cyano, carboxy, carbamyl, aryl, or heterocycle; and

R₄, R₅, and R₉ are hydrogen.

42. (previously presented) The composition of claim 41, wherein R₃ is -CH₃, -CH₂CH₃, -OCH₂CH₃, -F, -Br, -CF₃, -CBr₃, -OH, -O-CH₂-CH=CH₂, -CH₂-CH=CH₂, -NO₂, -cyano, -carboxy, or -benzyl.

Claims 43-56

CANCELED

57. (original) A composition selected from the group consisting of
6-[(Z)-2-(3,4,5-Trimethoxyphenyl) vinyl]-1,2-dihydroxybenzene,
3-Ethyl-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
3-Methyl-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
4-Bromo-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
4-Phenyl-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
3-Allyl-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
4-Fluoro-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-1,2-dihydroxybenzene,
2,3,4-Trihydroxy-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-benzene,
2,3-Dihydroxy-4-ethoxy-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-benzene,
2,3-Dihydroxy-4-allyloxy-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-benzene,
4-Nitro-6-[(Z)-2-(3,4,5-trimethoxyphenyl)vinyl]-2,3-dihydroxybenzene,
2',3'dihydroxy -3,5 dichloro-4,4'-dimethoxy-(Z)-stilbene,
2',3' dihydroxy-4'-methoxy-3,4,5-trifluoro-(Z)-stilbene,
2,3-Dihydroxy-4-methoxy-[(Z)-2-(3,4,5-trimethoxyphenyl) Beta-lactam]-benzene,
2',3' diphosphate-3,4,5-trimethoxy-(Z)-stilbene, tetrasodium salt;
3',4' diphosphate-3,4,5-trimethoxy-(Z)-stilbene, tetrasodium salt;
and combinations thereof.

58.(previously presented) The compound of claim 4, wherein X is an ethylene group (-CH=CH-), and Rings A and B are in a cis (Z) isomeric configuration